

FORM FOUR CLUSTER KCSE MODEL8

GEOGRAPHY PAPER 1 ANSWER

SECTION A (30 Marks)

1. (a) Two main branches of geography

- Physical geography
- Human geography 2x1

(b) State three effects of rotation of the earth.

- It causes day and night
- It causes a difference of one hour between meridians 150 apart
- It causes deflection of winds, ocean currents
- It cause variation in speed of air masses
- It causes the rising and falling of ocean tides any first 3x1

2. **a) Distinction between an isoseisma and an isobar**

- An isoseisma is a line drawn on a map joining places of equal earth quake intensity while an isobar is a line drawn on a map joining places of equal atmospheric pressure 1x2

(b) Time at x on long 30°E is 9.00am what of Y on long 60°E

$$15^{\circ} = 1\text{hour}/1^{\circ} = 4\text{min}$$

$$\text{Difference } 60^{\circ} - 30^{\circ} = 30^{\circ}$$

$$= 2\text{hours}$$

Time at Y is 2hours ahead, hence 11.00am 2mks

3. (a) State the theory of isostasy;

- The theory states that there is a state of equilibrium in the earth crust between SIAL and SIMA 1x2

(b) Give three significance of plate tectonics

- It causes metamorphism which leads to formation of minerals
- It is associated with volcanic activities that form spas which have medicinal value
- It has resulted into formation of landforms which attracts tourists hence foreign exchange
- Earnings - It has resulted into formation of mountains where windward side are forested hence lumbering any first 3x1

4. (a) How "wrong latitude" evidence proves occurrence of continental drift

- Some rocks/fossils thought to require special climatic conditions for their formation/ were found at latitudes

where such climatic conditions are impossible/ eg.coal in rocks at Antarctica/

(b) Proofs that the earth is spherical

- Sailing/flying in one direction brings one at the starting point i.e. circumnavigation
- Ship approaching a port has its mast/smoke seen first
- Sunrise appears first in the east then to the west
- Lunar eclipse has a circular shadow of the earth casted on the moon
- Logic that all planets are spherical so is the earth as a planet
- Satellite photographs reveals the earth as spherical

5. (a) (i) Definition of a lake

- A large mass of water in a basin on the earth's surface

(ii) Two examples of glacial lakes.

- Cirques/tarn - Ribbon lakes.
- Kettle lakes - Moraine dammed lakes.

(b) Benefits of lakes formed due to human activities

- Some are used for fishing
- Some are used for transport
- Some are used for HEP generation
- Some are used for irrigation
- Some are used to attract tourists

SECTION B (70 Marks)

6.